Amendment and Response

Applicant: Elisa M. Cross Scrial No.: 10/017,268 Filed: December 14, 2001 Docket No.: 57013US002

Title: TOUCH PANEL SPACER DOTS AND METHODS OF MAKING

RECEIVED CENTRAL FAX CENTER

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AMENDMENTS TO THE CLAIMS

Please add claims 52-56.

Please amend claim 1 as follows.

The following Listing of Claims will replace all prior versions and listings of claims in the application:

Listing of Claims

1. (Currently Amended) A method for making a touch activated user input device comprising:

providing a first substrate comprising a first conductive coating;
ink jet printing a plurality of dots on the first conductive, each of the dots
including nanoparticles:

hardening the dots to form spacers adhered to the first substrate; and placing a second substrate comprising a second conductive coating over the first substrate such that the spacers maintain a distance between the first and second substrates to prevent detection of a touch location when no external force is applied and allow detection of a localized touch location when a sufficient localized external force is applied between the first and second substrates.

- 2. (Original) The method of claim 1, wherein the dots comprise a nanocomposite comprising surface-modified inorganic nanoparticles.
- 3. (Original) The method of claim 2, wherein the surface-modified inorganic nanoparticles include silica nanoparticles.
- 4. (Original) The method of claim 2, wherein the nanoparticles are present in an amount of about 5% or more by weight of the nanocomposite.

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- 5. (Original) The method of claim 2, wherein the nanoparticles are present in an amount of about 10% to 40% by weight of the nanocomposite.
- The method of claim 2, wherein the nanoparticles have an average diameter in a range of about 10 to 30 nm.
- The method of claim 2, wherein the nanocomposite further comprises hexanediol 7. (Original) diacrylate.
- 8. (Original) The method of claim 1, wherein the step of ink jet printing a plurality of dots comprises ink jet printing a heated gel composition.
- The method of claim 8, wherein the gel composition comprises a nanocomposite 9. (Original) gel.
- 10. (Original) The method of claim 9, wherein the nanocomposite gel composition comprises surface-modified silica nanoparticles dispersed in an energy curable fluid vehicle.
- 11. (Original) The method of claim 10, wherein the energy curable fluid vehicle comprises hexanediol diacrylate.
- 12. (Original) The method of claim 10, wherein the silica nanoparticles are present in an amount of about 5% or more by weight of the nanocomposite gel.
- 13. (Original) The method of claim 10, wherein the silica nanoparticles are present in an amount of about 10% to 40% by weight of the nanocomposite gel.

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- 14. (Original) The method of claim 10, wherein the silica nanoparticles have an average diameter of about 10 to 30 nm.
- 15. (Original) The method of claim 1, wherein the first and second conductive coatings each comprise a transparent conductive coating.
- 16. (Original) The method of claim 1, wherein the spacer dots have heights of about 2 microns or more and have height to diameter aspect ratios of about 1:10 or more.
- 17. (Original) The method of claim 1, wherein the step of ink jet printing comprises ink jet printing a material onto a pre-existing dot.
- 18. (Original) The method of claim 1, further comprising associating the touch activated user input device with an electronic display.

19-43. (Withdrawn)

44-48. (Cancelled)

49. (Withdrawn)

50-51. (Cancelled)

52. (New) A method for making a touch activated user input device comprising:

providing a first substrate comprising a first conductive coating;

ink jet printing a gel composition to define a plurality of dots on the first conductive coating;

hardening the dots to form spacers adhered to the first substrate; and

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placing a second substrate comprising a second conductive coating over the first substrate such that the spacers maintain a distance between the first and second substrates to prevent detection of a touch location when no external force is applied and allow detection of a localized touch location when a sufficient localized external force is applied between the first and second substrates.

- 53. (New) The method of claim 52, wherein the gel composition comprises a nanocomposite gel including nanoparticles dispersed in an energy curable fluid vehicle.
- 54. (New) The method of claim 53, wherein the nanoparticles comprises surface-modified silica nanoparticles.
- The method of claim 53, wherein the nanoparticles have an average diameter in a 55. (Ncw) range of about 10 to 30 nm.
- 56. (Ncw) The method of claim 52, wherein the gel composition comprises hexanedial diacrylate.